EJERCICIOS ANÁLISIS DE SENSIBILIDAD

Realizar el cambio:

A2 = (

1. Resolver los ejercicios:

Max z = 3x1 + 5x2

S.a -2x1 ≤ 4

3x1 + 2x2 ≤ 18

∀ **xi** ∈ Ζ y xi ≥ 0

La tabla óptima es:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Z | x1 x2 | h1 h2 | LD |
| z  h1  x2 | 1  0  0 | 9/2 0  -2 0  3/2 1 | 0 5/2  1 0  0 1/2 | 45  4  9 |

Realizar el cambio:

1. Resolver los ejercicios:

Max z = 50x1 + 25x2 + 20x3+ 30x4

S.a 16x1 + 4x2 + 8x3+ 12x4 ≤ 640

30x1 + 5x2 + 10x3+ 20x4 ≤ 900

2x1 + x2 + x3+ 2x4 ≤ 200

∀ **xi** ∈ Ζ y xi ≥ 0

La tabla óptima es:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Z | x1 x2 x3 x4 | h1 h2 h3 | LD |
| z  x2  h2  h3 | 1  0  0  0 | 50 0 30 45  4 1 2 3  10 0 0 5  -2 0 -1 -1 | 25/4 0 0  1/4  0 0  - 5/4 1 0  - 1/4 0 1 | 4000  160  100  40 |

1. Resolver los ejercicios:

Realizar el cambio:

Max z = 6000x1 + 4000x2 + 2000x3

S.a 2x1 + 2x2 + 2x3 ≤ 300

2x1 + 4x2 ≤ 160

15x2 +30x3 ≤ 1350

∀ **xi** ∈ Ζ y xi ≥ 0

La tabla óptima es:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Z | x1 x2 x3 | h1 h2 h3 | LD |
| z  h1  x1  x3 | 1  0  0  0 | 0 9000 0  0 -3 0  1 2 0  0 1/2 1 | 0 3000 200/3  1 -1 -1/15  0 1/2  0  0 0 1/30 | 570000  50  80  45 |